

## ABSTRACT

A demodulation method for establishing clock synchronization within a short period of time from a received signal modulated by  $\pi/4$ -shift QPSK modulation that contains a synchronization establishment signal wherein the change in phase periodically alternates  
5 between positive and negative, and for demodulating the received signal. The method includes establishing synchronization from the received signal based on the timing of changes in the positive/negative polarity of the change in phase of the synchronization establishment signal contained in the received signal, and demodulating the received signal.